

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/519,122
Source: PCT
Date Processed by STIC: 09/26/2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 09/26/2005

PATENT APPLICATION: US/10/519,122

TIME: 12:46:09

Input Set : A:\14017-008US1.txt

Output Set: N:\CRF4\09262005\J519122.raw

4 <110> APPLICANT: Clawson, Gary A.
 5 Pan, Wei-Hua
 6 Thiboutot, Diane
 7 Christensen, Neil
 9 <120> TITLE OF INVENTION: METHODS AND MATERIALS FOR TREATING HUMAN
 10 PAPILLOMAVIRUS INFECTIONS
 12 <130> FILE REFERENCE: 14017-008US1
 14 <140> CURRENT APPLICATION NUMBER: US 10/519,122
 15 <141> CURRENT FILING DATE: 2004-12-22
 17 <150> PRIOR APPLICATION NUMBER: PCT/US03/20340
 18 <151> PRIOR FILING DATE: 2003-06-26
 20 <150> PRIOR APPLICATION NUMBER: US 60/449,066
 21 <151> PRIOR FILING DATE: 2003-02-21
 23 <150> PRIOR APPLICATION NUMBER: US 60/417,997
 24 <151> PRIOR FILING DATE: 2002-10-14
 26 <150> PRIOR APPLICATION NUMBER: US 60/391,795
 27 <151> PRIOR FILING DATE: 2002-06-26
 29 <160> NUMBER OF SEQ ID NOS: 84
 31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 17
 35 <212> TYPE: DNA
 36 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: primer
 41 <400> SEQUENCE: 1
 42 caggaaacag ctatgac 17
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 17
 46 <212> TYPE: DNA
 47 <213> ORGANISM: Artificial Sequence
 49 <220> FEATURE:
 50 <223> OTHER INFORMATION: primer
 52 <400> SEQUENCE: 2
 53 tgtaaaacga cggccag 17
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 67
 57 <212> TYPE: DNA
 58 <213> ORGANISM: Artificial Sequence
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: synthetically generated template
 W--> 63 <221> NAME/KEY: misc_feature
 64 <222> LOCATION: (1)...(67)

(pg-6)

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65 <223> OTHER INFORMATION: n = A,T,C or G
W--> 67 <400> 3
W--> 68 caggaaacag ctatgacnnn nnnnnrggct agctacaacg annnnnnnnn ctggccgtcg      60
69 ttttaca                                                                    67
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 17
73 <212> TYPE: RNA
74 <213> ORGANISM: Artificial Sequence
76 <220> FEATURE:
77 <223> OTHER INFORMATION: target sequence
79 <400> SEQUENCE: 4
80 ugcaauguuu caggacc                                                         17
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 17
84 <212> TYPE: RNA
85 <213> ORGANISM: Artificial Sequence
87 <220> FEATURE:
88 <223> OTHER INFORMATION: target sequence
90 <400> SEQUENCE: 5
91 cccagaaagu uaccaca                                                         17
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 17
95 <212> TYPE: RNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: target sequence
101 <400> SEQUENCE: 6
102 uuaccacagu uaugcac                                                         17
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 17
106 <212> TYPE: RNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: target sequence
112 <400> SEQUENCE: 7
113 gacgugaggu auaugac                                                         17
115 <210> SEQ ID NO: 8
116 <211> LENGTH: 17
117 <212> TYPE: RNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: target sequence
123 <400> SEQUENCE: 8
124 cauaguauau agagaug                                                         17
126 <210> SEQ ID NO: 9
127 <211> LENGTH: 17
128 <212> TYPE: RNA
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:

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132 <223> OTHER INFORMATION: target sequence
134 <400> SEQUENCE: 9
135 auuagugagu auagaca 17
137 <210> SEQ ID NO: 10
138 <211> LENGTH: 17
139 <212> TYPE: RNA
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: target sequence
145 <400> SEQUENCE: 10
146 uauaguugu auggaac 17
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 17
150 <212> TYPE: RNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: target sequence
156 <400> SEQUENCE: 11
157 gccacugugu ccugaag 17
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 17
161 <212> TYPE: RNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: target sequence
167 <400> SEQUENCE: 12
168 uauaaggggu cggugga 17
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 17
172 <212> TYPE: RNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: target sequence
178 <400> SEQUENCE: 13
179 guggaccggu cgaugua 17
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 17
183 <212> TYPE: RNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: target sequence
189 <400> SEQUENCE: 14
190 aaagauccu ccacguc 17
192 <210> SEQ ID NO: 15
193 <211> LENGTH: 17
194 <212> TYPE: RNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: target sequence

```

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200 <400> SEQUENCE: 15
201 accuaaaaggu ugugugg                               17
203 <210> SEQ ID NO: 16
204 <211> LENGTH: 17
205 <212> TYPE: RNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: target sequence
211 <400> SEQUENCE: 16
212 uagacacuuu aaauaug                               17
214 <210> SEQ ID NO: 17
215 <211> LENGTH: 17
216 <212> TYPE: RNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: target sequence
222 <400> SEQUENCE: 17
223 ugugugaaau agaaaaa                               17
225 <210> SEQ ID NO: 18
226 <211> LENGTH: 17
227 <212> TYPE: RNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: target sequence
233 <400> SEQUENCE: 18
234 guggaagggg cguugc                                17
236 <210> SEQ ID NO: 19
237 <211> LENGTH: 17
238 <212> TYPE: RNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: target sequence
244 <400> SEQUENCE: 19
245 gaagacuugu uaccua                                17
247 <210> SEQ ID NO: 20
248 <211> LENGTH: 17
249 <212> TYPE: RNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: target sequence
255 <400> SEQUENCE: 20
256 ccuguagggg uacauug                               17
258 <210> SEQ ID NO: 21
259 <211> LENGTH: 17
260 <212> TYPE: RNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: target sequence
266 <400> SEQUENCE: 21

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```

267 gaagacagcu cagaaga 17
269 <210> SEQ ID NO: 22
270 <211> LENGTH: 17
271 <212> TYPE: RNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: target sequence
277 <400> SEQUENCE: 22
278 auuaccaaau acugacc 17
280 <210> SEQ ID NO: 23
281 <211> LENGTH: 17
282 <212> TYPE: RNA
283 <213> ORGANISM: Artificial Sequence
285 <220> FEATURE:
286 <223> OTHER INFORMATION: target sequence
288 <400> SEQUENCE: 23
289 cuuugaggau ccaacac 17
291 <210> SEQ ID NO: 24
292 <211> LENGTH: 17
293 <212> TYPE: RNA
294 <213> ORGANISM: Artificial Sequence
296 <220> FEATURE:
297 <223> OTHER INFORMATION: target sequence
299 <400> SEQUENCE: 24
300 accguugaau ccagcag 17
302 <210> SEQ ID NO: 25
303 <211> LENGTH: 17
304 <212> TYPE: RNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: target sequence
310 <400> SEQUENCE: 25
311 ugggcacuau agaggcc 17
313 <210> SEQ ID NO: 26
314 <211> LENGTH: 17
315 <212> TYPE: DNA
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: target sequence
321 <400> SEQUENCE: 26
322 cccagaaagt taccaca 17
324 <210> SEQ ID NO: 27
325 <211> LENGTH: 17
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: target sequence
332 <400> SEQUENCE: 27
333 ttaccacagt tatgcac 17

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/519,122

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 18,19,20,21,22,23,24,25,42,43,44,45,46,47,48,49,50

Seq#:80; N Pos. 18,19,20,21,22,23,24,25,26,43,44,45,46,47,48,49,50

Seq#:83; N Pos. 1,2,3,4,5,6,7,8,32,33,34,35,36,37,38

Seq#:84; N Pos. 1,2,3,4,5,6,7,8,24,25,26,27,28,29,30,31

VERIFICATION SUMMARY

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Input Set : A:\14017-008US1.txt

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L:63 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:67 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:585 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:589 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:935 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:939 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:80
L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:0
L:973 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:977 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:83
L:978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
L:988 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:992 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:0